



MSD-3606

Multi-output Dual-range Switching DC Power Supply



Mywave Instrument Co., Ltd.

◆ Introduction

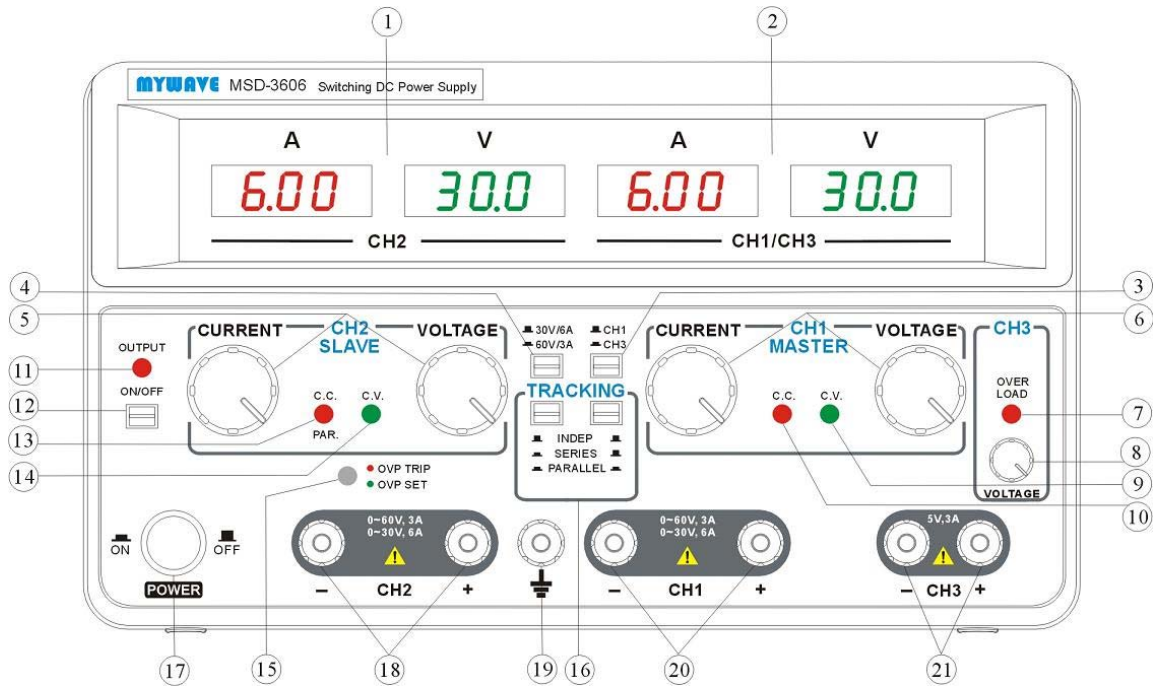
MSD-3606 switching mode DC power supply provides 375W output capacity with three independent outputs and CH1/CH2 dual-range output (30V/ 6A or 60V/ 3A), which accommodates a wide range of applications. On the basis of fixed output capacity, it enables output voltage or current to the maximum. With high power density and high conversion efficiency, multiple protections, high reliability, low noise and compact design, MSD-3606 is completely adequate for satisfying mainstream power supply demands.

◆ Features

- CH1/CH2 dual-range output of 30V/6A or 60V/3A
- CH3 adjustable output: 0.1~5V/3A
- Auto series/parallel tracking operation, providing flexible output of 30V/12A, 60V/6A or 120V/3A
- High power conversion efficiency, improving the power efficiency by 25% than traditional power supply
- Manual and remote ON/OFF control
- Multiple protections: OVP, OTP, OLP and reverse polarity protection
- Automatically switching AC115V/230V source
- Fan speed control circuit, minimizing fan acoustic noise
- Compact design, light weight

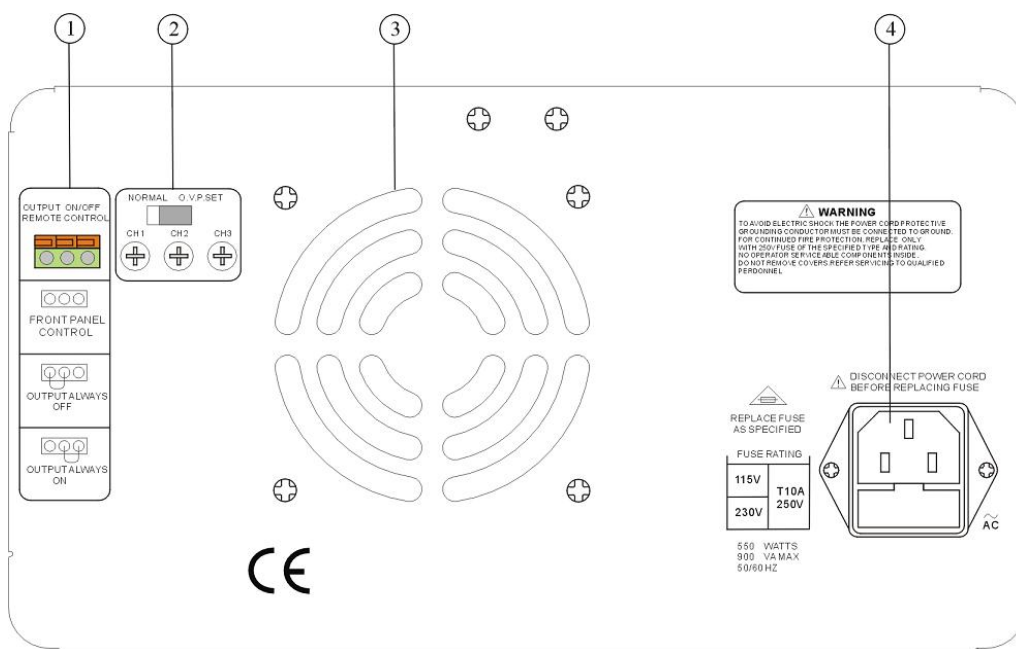
◆ Panels

Front panel



- | | | | |
|-----------------------------|-------------------------|----------------------------|--------------------------|
| 1. CH2 meter | 2. CH1/3 meter | 3. CH1/3 meter switch | 4. Output range switch |
| 5. CH2 output knob | 6. CH1 output knob | 7. CH3 over load indicator | 8. CH3 voltage knob |
| 9. CH1 C.V. indicator | 10. CH1 C.C. indicator | 11. OUTPUT indicator | 12. Output ON/OFF key |
| 13. CH2 C.C./PAR. indicator | 14. CH2 C.V. indicator | 15. OVP indicator | 16. Auto tracking switch |
| 17. Power switch | 18. CH2 output terminal | 19. Ground terminal | 20. CH1 output terminal |
| 21. CH3 output terminal | | | |

Rear panel



- | | | | |
|----------------------------|----------------------|----------------|-----------------------------|
| 1. Remote control terminal | 2. OVP setting point | 3. Cooling fan | 4. Power cord / fuse socket |
|----------------------------|----------------------|----------------|-----------------------------|

◆ Specifications

Model	MSD-3606			
	CH1&CH2 Independent mode	CH1&CH2 Series mode	CH1&CH2 Parallel mode	CH3
Output ratings	0~30V/0~6A; 0~60V/0~3A	0~60V/0~6A; 0~120V/0~3A	0~30V/0~12A; 0~60V/0~6A	0.1~5V/3A
Voltage				
Line regulation	≤0.01%+3mV			
Load regulation	≤0.01%+5mV (rating current≤6A); ≤0.01%+8mV (rating current≤12A)			
Ripple & Noise	≤5mV rms (5Hz~1MHz); ≤50mVpp (20Hz~20MHz)			
Recovery time	≤100us (50% load change, minimum load 0.5A)			
Current				
Line regulation	≤0.2%+3mA			
Load regulation	≤0.2%+3mA			
Ripple & Noise	≤3mA rms			
Tracking Operation				
Tracking error	≤0.5%+10mV of the master			
Series regulation	≤300mV			
Ripple & Noise	≤10mVrms (5Hz~1MHz); ≤100mVpp (20Hz~20MHz)			
Output On/Off Response Time				
Voltage up (10%~90%)	≤100ms (≤95% rating load)			
Voltage down (90%~10%)	≤100ms (≥10% rating load)			
OVP				
Accuracy	±(0.5% of reading+0.5V)			
Meter				
Type	3 1/2 digits 0.39" LED display			
Accuracy	±(0.5% of reading +2 digits)			
Resolution	100mV/10mA			
Protection				
Protection	OVP, OTP, OLP , reverse polarity protections			
Remote control	Output On/Off			
Fan noise	≤50dB			
Temperature co-efficient	Voltage: ≤100ppm/°C+3mV Current: ≤150ppm/°C+3mA			
Insulation	Between chassis and output terminal: ≥100MΩ/1000VDC Between chassis and AC cord: ≥100MΩ/1000VDC			
Operation environment	Ambient temperature: 0~40°C Relative humidity: ≤80%			
Storage environment	Ambient temperature: 0°C~70°C Relative humidity: ≤70%			

Power source	AC 115V/230V±15%, 50/60Hz
Accessories	Operation manual ×1, Power cord ×1
Dimension	310(D)×250(W)×150(H)mm
Weight	5.5kg

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